Bruhat Bangalore Mahanagara Palike
Executive Engineer
Yelhanka Division

DETAILED ESTIMATE

NAME OF WORK: Improvements of roads ,drains and footpath at 1st main ,6th cross ,8th A cross,9th A cross and Surroundings at A sector in ward no 04
PROJECT COST: 98.00 Lakhs

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BRUHAT BANAGLORE MAHANAGARA PALIKE

Executive Engineer-Yelhanka Division

Detailed Estimate

Name of Work:Improvements of roads ,drains and footpath at 1st main ,6th cross ,8th A cross,9th A cross and Surroundings at A sector in ward no 04

Estimate Amount : 9800000.00

Sl. No	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
	CIVIL WORKS								
1	**Removing BS Slab** of drain and Stacking (Page No 25., LNo.5.32 of KPWD S.R 2015-16).								
		Sqm							
	Existing Cover slab								
	2nd main from 9th A cross to 1st A sector								
	Ch: (0 - 294)	L/s	1	294	1.20		352.80		
	Ch: (0 - 294)	R/s	1	294	1.20		352.80		
	Deuction for Cross roads (46-38)+(97-90)+(240-232) = 23		-1	23	1.20		-27.60		
	8th A Cross								
	Ch: (0 - 700)	L/s	1	700	1.20		840.00		
	Deuction for Cross roads (342-335)+(421-404)+(478-473) = 24		-1	24	1.20		-28.80		
	Ch: (0 - 700)	R/s	1	700	1.20		840.00		
	Deuction for Cross roads (342-335)+(478-473) = 12		-1	12	1.20		-14.40		
	9th A Cross from 13th main to 16th A main								
	Ch: (0 - 300)	L/s	1	300	1.20		360.00		
	Deuction for Cross roads (59-54) = 5		-1	5	1.20		-6.00		
	Ch: (0 - 300)	R/s	1	300	1.20		360.00		
	Deuction for Cross roads (146-139) = 7		-1	7	1.20		-8.40		
	4th A main from 9th A cross to 13th A cross								
	Ch: (0 - 245)	L/s	1	245	0.90		220.50		
	Deuction for Cross roads (47-32)+(93-84) = 24		-1	24	0.90		-21.60		
	Deuction for missing length (32-0)+(84-47) = 69		-1	69	0.90		-62.10		
	Ch: (0 - 245)	R/s	1	245	0.90		220.50		
	Deuction for Cross roads (47-32)+(93-84) = 24		-1	24	0.90		-21.60		
	Deuction for missing length (32-0) = 32		-1	32	0.90		-28.80		

Sl. No	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
	4th A Cross from 13th A main to 13th A main								
	Ch: (0 - 130)	L/s	1	130	0.90		117.00		
	Deuction for Cross roads (79-74) = 5		-1	5	0.90		-4.50		
	Ch: (0 - 130)	R/s	1	130	0.90		117.00		
	13th A main from 3rd A cross to 2nd A cross								
	Ch: (0 - 88)	B/s	2	88	1.20		211.20		
							3768.00	63.72	240096.96
2	Refixing Stone Slabs of drains and Pointing in C M(1:3) (Page No 26., I.No.5.33 of KPWD S.R 2015-16).								
	Existing Cover slab	Sqm							
	2nd main from 9th A cross to 1st A sector								
	Ch: (0 - 294)	L/s	1	294	1.20		352.80		
	Ch: (0 - 294)	R/s	1	294	1.20		352.80		
	Deuction for Cross roads (46-38)+(97-90)+(240-232) = 23		-1	23	1.20		-27.60		
	8th A Cross								
	Ch: (0 - 700)	L/s	1	700	1.20		840.00		
	Deuction for Cross roads (342-335)+(421-404)+(478-473) = 24		-1	24	1.20		-28.80		
	Ch: (0 - 700)	R/s	1	700	1.20		840.00		
	Deuction for Cross roads (342-335)+(478-473) = 12		-1	12	1.20		-14.40		
	9th A Cross from 13th main to 16th A main								
	Ch: (0 - 300)	L/s	1	300	1.20		360.00		
	Deuction for Cross roads (59-54) = 5		-1	5	1.20		-6.00		
	Ch: (0 - 300)	R/s	1	300	1.20		360.00		
	Deuction for Cross roads (146-139) = 7		-1	7	1.20		-8.40		
	4th A main from 9th A cross to 13th A cross								
	Ch: (0 - 245)	L/s	1	245	0.90		220.50		
	Deuction for Cross roads (47-32)+(93-84) = 24		-1	24	0.90		-21.60		
	Deuction for missing length (32-0)+(84-47) = 69		-1	69	0.90		-62.10		
	Ch: (0 - 245)	R/s	1	245	0.90		220.50		
	Deuction for Cross roads (47-32)+(93-84) = 24		-1	24	0.90		-21.60		
	Deuction for missing length (32-0) = 32		-1	32	0.90		-28.80		

Sl. No	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
	4th A Cross from 15th A main to 13th A main								
	Ch: (0 - 130)	L/s	1	130	0.90		117.00		
	Deuction for Cross roads (79-74) = 5		-1	5	0.90		-4.50		
	Ch: (0 - 130)	R/s	1	130	0.90		117.00		
	13th A main from 3rd A cross to 2nd A cross								
	Ch: (0 - 88)	B/s	2	88	1.20		211.20		
							3768.00		
	Deduction for damaged 20%						-753.60		
							3014.40	78.84	237655.30
3	Providing precast slab of 100 mm thick including cost of all materials, labour, curing,transportation,loading ,unloading,etc ,complete as per the direction of engineer in charge- **Data rate**								
		Sqm							
	New Slabs								
	for damaged 20%								
							753.60		
							753.60	1834.00	1382102.40
4	KSRRB 300-1. **Earthwork excavation by manual means** in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 1.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 **(Page No141., I.No.19.1 of KPWD S.R 2015-16).**								
		Cum							
	Desilting								
	2nd main from 9th A cross to 1st A sector								
	Ch: (0 - 294)	L/s	1	294	0.60	0.700	123.48		
	Ch: (0 - 294)	R/s	1	294	0.60	0.700	123.48		
	8th A Cross								
	Ch: (0 - 700)	L/s	1	700	0.60	0.700	294.00		
	Ch: (0 - 700)	R/s	1	700	0.60	0.700	294.00		
	9th A Cross from 13th main to 16th A main								
	Ch: (0 - 300)	L/s	1	300	0.60	0.600	108.00		
	Ch: (0 - 300)	R/s	1	300	0.60	0.600	108.00		
	4th A main from 9th A cross to 13th A cross								
	Ch: (0 - 245)	L/s	1	245	0.60	0.600	88.20		
	Ch: (0 - 245)	R/s	1	245	0.60	0.600	88.20		
	4th A Cross from 15th A main to 13th A main								
	Ch: (0 - 130)	L/s	1	130	0.60	0.600	46.80		
	Ch: (0 - 130)	R/s	1	130	0.60	0.600	46.80		
	13th A main from 3rd A cross to 2nd A cross								
	Ch: (0 - 88)	B/s	2	88	0.60	0.600	63.36		
	1st D cross road from Doddaballapur road to yelhanka road								

Sl. No	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
	Ch: (0 - 301)	B/s	1	301	0.60	0.600	108.36		
							1492.68	177.88	265517.92
5	Removing and resetting of kerb stones **(Page No 258., I.No.37.57 of KPWD S.R 2015-16).**								
		m							
	8th A Cross								
	Ch: (0 - 700)	L/s	1	700			700.00		
	Deuction for Cross roads (342-335)+(421-404)+(478-473) = 24		-1	24			-24.00		
	Ch: (0 - 700)	R/s	1	700			700.00		
	Deuction for Cross roads (342-335)+(478-473) = 12		-1	12			-12.00		
							1364.00		
	Deduction for damaged 20%						-272.80		
							1091.20	63.72	69531.26
6	Providing and fixing **pre cast solid cement concrete kerb stones** made out of C.C. 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including formwork,curing,including cost of all materials, labour, hire charges of machinery, loading,unloading, lead and lift, transportation etc., complete. **(Page No 25., I.No.5.30 of KPWD S.R 2015-16).**								
		Nos							
	8th A Cross								
	For Damaged portion		1	272.8			606.00		
	Missing Length								
	9th A Cross from 13th main to 16th A main								
	Ch: (0 - 300)		1	60			133.00		
			1	40			89.00		
							828.00	320.76	265589.28
7	**KSRB 4-1.6 ; Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size** graded granite metal coarse aggregates @0.878cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation,plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 **(Page No 12., I.No.4.6 of KPWD S.R 2015-16).**								
		Cum							
	Packing Concrete								
	2nd main from 9th A cross to 1st A sector								
	Ch: (0 - 294)	L/s	1	294	0.10	0.150	4.41		
	Ch: (0 - 294)	R/s	1	294	0.10	0.150	4.41		
	Deuction for Cross roads (46-38)+(97-90)+(240-232) = 23		-1	23	0.10	0.150	-0.35		
	8th A Cross								
	Ch: (0 - 700)	L/s	1	700	0.10	0.150	10.50		

Sl. No	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
	Deuction for Cross roads (342-335)+(421-404)+(478-473) = 24		-1	24	0.10	0.150	-0.36		
	Ch: (0 - 700)	R/s	1	700	0.10	0.150	10.50		
	Deuction for Cross roads (342-335)+(478-473) = 12		-1	12	0.10	0.150	-0.18		
	9th A Cross from 13th main to 16th A main								
	Ch: (0 - 300)	L/s	1	300	0.10	0.150	4.50		
	Deuction for Cross roads (59-54) = 5		-1	5	0.10	0.150	-0.08		
	Ch: (0 - 300)	R/s	1	300	0.10	0.150	4.50		
	Deuction for Cross roads (146-139) = 7		-1	7	0.10	0.150	-0.11		
	4th A main from 9th A cross to 13th A cross								
	Ch: (0 - 245)	L/s	1	245	0.10	0.150	3.68		
	Deuction for Cross roads (47-32)+(93-84) = 24		-1	24	0.10	0.150	-0.36		
	Deuction for missing length (32-0)+(84-47) = 69		-1	69	0.10	0.150	-1.04		
	Ch: (0 - 245)	R/s	1	245	0.10	0.150	3.68		
	Deuction for Cross roads (47-32)+(93-84) = 24		-1	24	0.10	0.150	-0.36		
	Deuction for missing length (32-0) = 32		-1	32	0.10	0.150	-0.48		
	4th A Cross from 15th A main to 13th A main								
	Ch: (0 - 130)	L/s	1	130	0.10	0.150	1.95		
	Deuction for Cross roads (79-74) = 5		-1	5	0.10	0.150	-0.08		
	Ch: (0 - 130)	R/s	1	130	0.10	0.150	1.95		
	13th A main from 3rd A cross to 2nd A cross								
	Ch: (0 - 88)	B/s	2	88	0.10	0.150	2.64		
							49.34	5490.72	270884.67

Sl. No	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
	ROAD WORKS								
8	KSRRB M300-14. **Excavation for roadwork in all type of soil with hydraulic excavator** of 0.9 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to the embankment location to a lead of 1.00 km and complete as per specifications. MORTH Specification No.301 **(Page No 142., I.No.19.14 of KPWD S.R 2015-16).**								
		Cum							
	Road cutting								
	4th main								
	Ch: (0 - 300)		1	300	1.00	0.375	112.50		
	1st D cross road from Doddaballapur road to Yelhanka road								
	Ch: (0 - 301)		1	301	1.50	0.375	169.31		
							281.81	143.32	40389.37
9	KSRRB 300-58. **Compaction of original ground** with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications. MORTH / Chapter 3 **(Page No 148., I.No.19.64 of KPWD S.R 2015-16).**								
		Sqm							
	Road cutting								
	4th main								
	Ch: (0 - 300)		1	300	1.00		300.00		
	1st D cross road from Doddaballapur road to Yelhanka road								
	Ch: (0 - 301)		1	301	1.50		451.50		
							751.50	4.86	3652.29
10	KSRRB M400-6.1. Construction of **granular sub-base** by providing close graded material, mixing in a mechaical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications. A. Plant Mix Method.Close graded granular sub-base material as per 400-1 For Grading- II Material **(Page No 154., I.No.20.4.2 of KPWD S.R 2015-16).**								
		Cum							
	Road cutting								
	4th main								
	Ch: (0 - 300)		1	300	1.00	0.150	45.00		
	1st D cross road from Doddaballapur road to Yelhanka road								
	Ch: (0 - 301)		1	301	1.50	0.150	67.73		
							112.73	1622.16	182857.99
1	KSRRB M400-17. Providing, laying, spreading and compacting graded stones aggregate to **wet mix macadam** specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 **(Page No 157., I.No.20.18 of KPWD S.R 2015-16).**								
		Cum							
	Road cutting								
	4th main								
	Ch: (0 - 300)		1	300	1.00	0.250	75.00		

Sl. No	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amou in Rs
	1st D cross road from Doddaballapur road to yelhanka road								
	Ch: (0 - 301)		1	301	1.50	0.250	112.88		
							187.88	1713.96	322010.24
12	KSRRB M500-6. Providing and applying **primer coat** with S.S. bitumen emulsion on prepared surface of granular base such as WBM,WMM ,including clearing of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per Specifications. MORTH Specification No. 502 **(Page No 160., I.No.21.6 of KPWD S.R 2015-16).**								
		Sqm							
	Road cutting								
	4th main								
	Ch: (0 - 300)		1	300	1.00		300.00		
	1st D cross road from Doddaballapur road to yelhanka road								
	Ch: (0 - 301)		1	301	1.50		451.50		
							751.50	32.40	24348.60
13	KSRRB 500-2. **Cleaning the existing black topped** surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH / Chapter 5**(Page No 160., I.No.21.2 of KPWD S.R 2015-16).**								
		Sqm							
	2nd main from 9th A cross to 1st A sector								
	Ch: (0 - 294)		1	294	6.50		1911.00		
	8th A Cross								
	Ch: (0 - 700)		1	700	8.50		5950.00		
	9th A Cross from 13th main to 16th A main								
	Ch: (0 - 300)		1	300	8.00		2400.00		
	4th A main from 9th A cross to 13th A cross								
	Ch: (0 - 32)		1	32	4.70		150.40		
	Ch: (32 - 84)		1	52	4.00		208.00		
	Ch: (84 - 245)		1	161	4.50		724.50		
	4th A Cross from 15th A main to 13th A main								
	Ch: (0 - 130)		1	130	5.50		715.00		
	13th A main from 3rd A cross to 2nd A cross								
	Ch: (0 - 100)		1	100	18.60		1860.00		
	1st D cross road from Doddaballapur road to yelhanka road								
	Ch: (0 - 70)		1	70	7.50		525.00		
	Ch: (70 - 193)		1	123	8.50		1045.50		
	Ch: (193 - 301)		1	108	7.50		810.00		
							16299.40	3.24	52810.06

Sl. No	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
14	KSRRB 500-7. Providing and applying **tack coat** using 80/100 grade Bitumen (VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm , heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH/Chapter 5 **(Page No 160., I.No.21.7 of KPWD S.R 2015-16).**								
		Sqm							
	2nd main from 9th A cross to 1st A sector								
	Ch: (0 - 294)		1	294	6.50		1911.00		
	8th A Cross								
	Ch: (0 - 700)		1	700	8.50		5950.00		
	9th A Cross from 13th main to 16th A main								
	Ch: (0 - 300)		1	300	8.00		2400.00		
	4th A main from 9th A cross to 13th A cross								
	Ch: (0 - 32)		1	32	4.70		150.40		
	Ch: (32 - 84)		1	52	4.00		208.00		
	Ch: (84 - 245)		1	161	4.50		724.50		
	4th A Cross from 15th A main to 13th A main								
	Ch: (0 - 130)		1	130	5.50		715.00		
	13th A main from 3rd A cross to 2nd A cross								
	Ch: (0 - 100)		1	100	18.60		1860.00		
	1st D cross road from Doddaballapur road to yelhanka road								
	Ch: (0 - 70)		1	70	7.50		525.00		
	Ch: (70 - 193)		1	123	8.50		1045.50		
	Ch: (193 - 301)		1	108	7.50		810.00		
							16299.40	15.12	246446.93
15	KSRRB MS00- 15. Providing, laying **dense graded bituminous macadam** using 40/60 THP capacity H.M.P with Mechanical paver Gr-II(50mm to 75mm), crushed aggregates of specified grading premixed with 4.5% VG 30 grade bituminous binder and , transporting the hot mix to work site , laying to the required level and grade, rolling with wheeled , vibratory and tandeem rollers to achieve the desired density including all leads and lift cost of all materials, labour, HOM of machineries complete as per specifications MORTH Specification No.507 **(Page No 161., I.No.21.17.6 of KPWD S.R 2015-16).**								
		Cum							
	Road cutting								
	4th main								
	Ch: (0 - 300)		1	300	1.00	0.050	15.00		
	1st D cross road from Doddaballapur road to yelhanka road								
	Ch: (0 - 301)		1	301	1.50	0.050	22.58		
	Profile correction								
	2nd main from 9th A cross to 1st A sector								
	Ch: (0 - 294)		1	75	2.00	0.050	7.50		
	8th A Cross								
	Ch: (0 - 700)		1	100	2.00	0.050	10.00		

Sl. No	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
	9th A Cross from 13th main to 16th A main								
	Ch: (0 - 300)		1	65	1.50	0.050	4.88		
	4th A main from 9th A cross to 13th A cross								
	Ch: (0 - 245)		1	45	2.00	0.050	4.50		
	4th A Cross from 15th A main to 13th A main								
	Ch: (0 - 130)		1	20	1.50	0.050	1.50		
	13th A main from 3rd A cross to 2nd A cross								
	Ch: (0 - 100)		1	40	2.00	0.050	4.00		
	1st D cross road from Doddaballapur road to yelhanka road								
	Ch: (0 - 301)		1	32	2.00	0.050	3.20		
							73.15	7927.20	579874.68
16	KSRRB M500- 15. Providing, laying **bituminousConcrete** using **40/60 THP** capacity H.M.P with Mechanical paver Gr-II(30mm to 45mm), crushed aggregates of specified grading premixed with 6% VG 30 grade bituminous binder and , transporting the hot mix to work site , laying to the required level and grade, rolling with wheeled , vibratory and tandeem rollers to achieve the desired density including all leads and lift cost of all materials, labour, HOM of machineries complete as per specifications MORTH Specification No.509 **(Page No 164., I.No.21.22.6 of KPWD S.R 2015-16).**									
		Cum							
	2nd main from 9th A cross to 1st A sector								
	Ch: (0 - 294)		1	294	6.50	0.030	57.33		
	8th A Cross								
	Ch: (0 - 700)		1	700	8.50	0.030	178.50		
	9th A Cross from 13th main to 16th A main								
	Ch: (0 - 300)		1	300	8.00	0.030	72.00		
	4th A main from 9th A cross to 13th A cross								
	Ch: (0 - 32)		1	32	4.70	0.030	4.51		
	Ch: (32 - 84)		1	52	4.00	0.030	6.24		
	Ch: (84 - 245)		1	161	4.50	0.030	21.74		
	4th A Cross from 15th A main to 13th A main								
	Ch: (0 - 130)		1	130	5.50	0.030	21.45		
	13th A main from 3rd A cross to 2nd A cross								
	Ch: (0 - 100)		1	100	18.60	0.030	55.80		
	1st D cross road from Doddaballapur road to yelhanka road								
	Ch: (0 - 70)		1	70	7.50	0.030	15.75		
	Ch: (70 - 193)		1	123	8.50	0.030	31.37		
	Ch: (193 - 301)		1	108	7.50	0.030	24.30		
							488.98	9822.60	4803074.59
	ROAD FURNITURES								

Sl. No	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
17	KSRRB 800-1. **Painting two coats** after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8(**Page No 179, I.No.24.1 of KPWD S.R 2015-16).**								
	Kerb Painting	Sqm							
	2nd main from 9th A cross to 1st A sector								
	Ch: (0 - 294)	L/s	1	294		0.300	88.20		
	Ch: (0 - 294)	R/s	1	294		0.300	88.20		
	Deuction for Cross roads (46-38)+(97-90)+(240-232) = 23		-1	23		0.300	-6.90		
	8th A Cross								
	Ch: (0 - 700)	L/s	1	700		0.300	210.00		
	Deuction for Cross roads (342-335)+(421-404)+(478-473) = 24		-1	24		0.300	-7.20		
	Ch: (0 - 700)	R/s	1	700		0.300	210.00		
	Deuction for Cross roads (342-335)+(478-473) = 12		-1	12		0.300	-3.60		
	9th A Cross from 13th main to 16th A main								
	Ch: (0 - 300)	L/s	1	300		0.300	90.00		
	Deuction for Cross roads (59-54) = 5		-1	5		0.300	-1.50		
	Ch: (0 - 300)	R/s	1	300		0.300	90.00		
	Deuction for Cross roads (146-139) = 7		-1	7		0.300	-2.10		
							755.10	61.56	46483.96
18	KSRRB M800-13. Providing and laying of **hot applied thermoplastic compound** 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803 **(Page No 181., I.No.24.15 of KPWD S.R 2015-16).**								
	Road marking	Sqm							
	2nd main from 9th A cross to 1st A sector								
	Ch: (0 - 294)		2.5	294	0.10		73.50		
	8th A Cross								
	Ch: (0 - 700)		2.5	700	0.10		175.00		
	9th A Cross from 13th main to 16th A main								
	Ch: (0 - 300)		2.5	300	0.10		75.00		
	4th A main from 9th A cross to 13th A cross								
	Ch: (0 - 32)		2.5	32	0.10		8.00		
	Ch: (32 - 84)		2.5	52	0.10		13.00		
	Ch: (84 - 245)		2.5	161	0.10		40.25		
	4th A Cross from 15th A main to 13th A main								

Sl. No	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
	Ch: (0 - 130)		2.5	130	0.10		32.50		
	13th A main from 3rd A cross to 2nd A cross								
	Ch: (0 - 100)		2.5	100	0.10		25.00		
	1st D cross road from Doddaballapur road to Yelhanka road								
	Ch: (0 - 70)		2.5	70	0.10		17.50		
	Ch: (70 - 193)		2.5	123	0.10		30.75		
	Ch: (193 - 301)		2.5	108	0.10		27.00		
							517.50	473.04	244798.20
	Sub Total								9278124.69
19	Cost towards Design Report and Detailed Estimate,PMC/Third party								92781.25
20	**Cost of Plastic@ 8% of bitumen qty for BC**	Kg	1	5515.72				27.00	148924.36
21	Cost towards DLP and contigencies								278343.74
22	Miscllenous and other charges								1825.96
	Grand Total								9800000.00

Certificate:-

1. That the workspot inspected by me and found work is necessary.
2. That the area comes with in the Bruhat Bangalore Mahanagara Palike Limits.
3. That the rates are adopted based on the PWD SR of 2015-16
4. That the provisions made in the estimate are necessary and quite essential.

Consultant:

For M/s MECADEZ CORE TECHNOLOGIES PVT LTD

Asst. Engineer
Ward No-08
BBMP

AEE
Yelhanka Sub Division
BBMP

Executive Engineer
Yelhanka Division
BBMP